Order No. VRDS841206
D4

Service Manual

Editing Video Cassette Recorder

Effective From: Serial No. J4HL00001

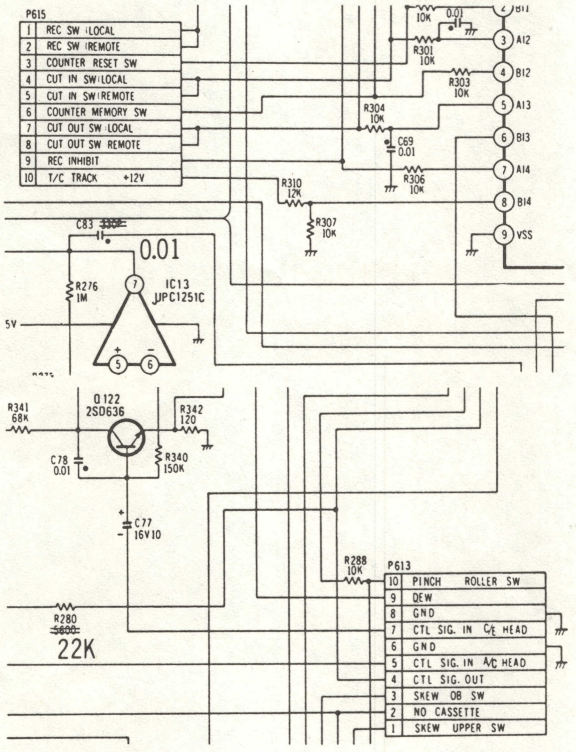
Model No. AU-700

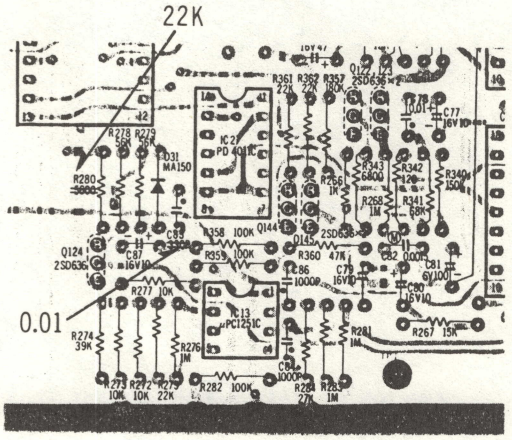
Supplement

Subject: Improvement of System Control Circuit

Please use this manual together with the Service Manual for Model No. AU-700
Order No. VRD-8102-513

Sympton: 34P CTL signal output is not sufficient.
Cause: Because the base current of Q124 is low.
Remedy: R280 and C83 have been changed as shown below.





[SYSTEM CONTROL C.B.A. (VEP0696C1)]

Ref.No.	Original Part No.	New Part No.	Part Name & Description
R280	ERD25TJ562	ERD25TJ223	Resistor 5600Ω → 22kΩ
C83	ECKD1H331KB	ECKF1H103ZF	Capacitor 330P → 0.01

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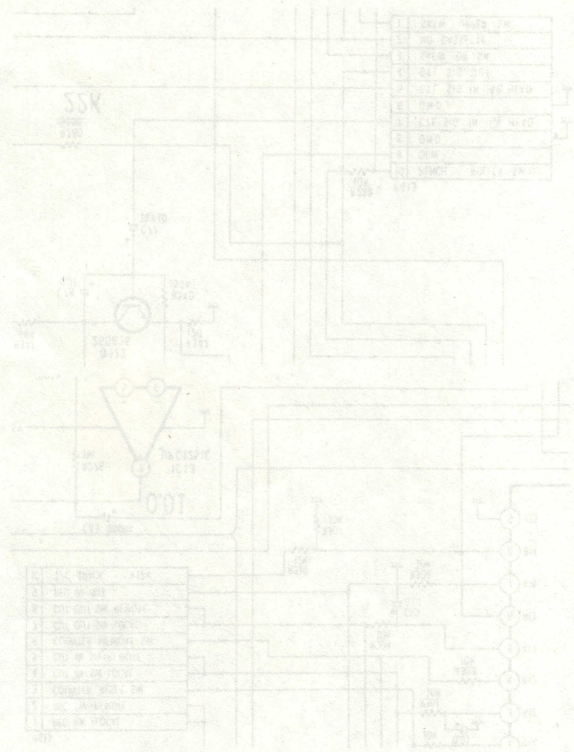
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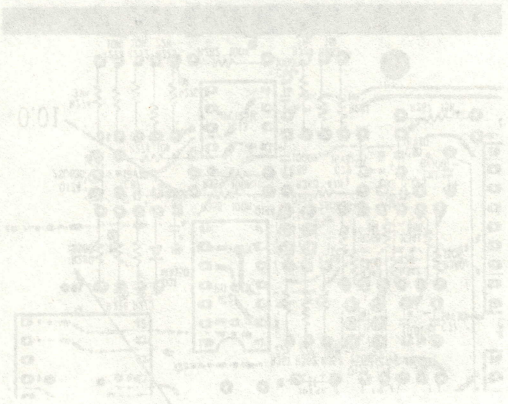
SERVICE MANUAL

Edited Video Cassette Recorder

Model No. NV-J00

Order No. VED9807J00





Subject: Improvement of System Control Circuit

Please use this manual together with the Service Manual for Model No. NV-J00

Order No. VED-8103-SIC

Symptom: 3rd CLF signal output is not sufficient.

Cause: Because the phase content of 612A is low.

Remedy: R580 and C83 have been changed as shown below.

Ref. No.	Original Part No.	New Part No.	Part Name & Description
R580	ERDS2FJ152	ERDS2FJ153	Resistor 15000 + 5% 1/4 W
C83	ECKDTH332KB	ECKETH103ZA	Capacitor .033 + 0.01

Effective From: Serial No. 1AHA0001

Subject:

Order No. VRDS841207
D4

Service Manual

Editing Controller

Effective From: Serial No. Running Change

Model No. NV-A960/A970
AU-A70

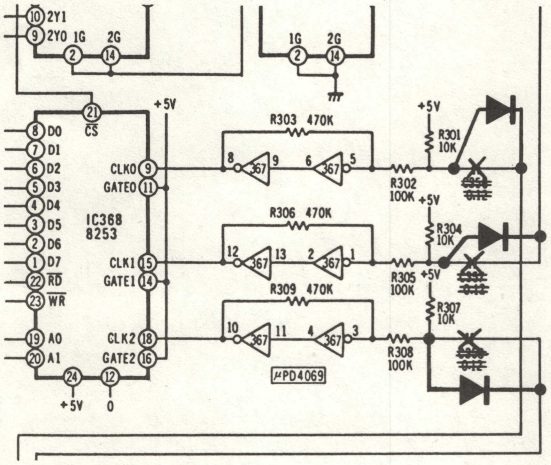
Bulletin NO. 3

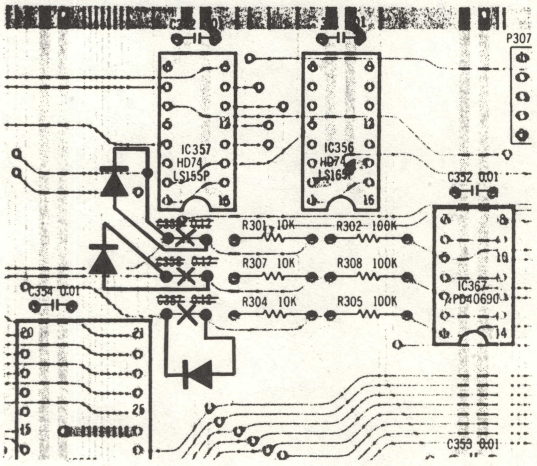
Supplement

Subject: Change of MCPU Circuit

Please use this manual together with the Service Manual for Model No. NV-A960, NV-A970, AU-A70
Order No. VRD-7901-34, VRD-8106-882, VRD-8006-406

To prevent misreading of Control Pulse caused by the noise, Capacitor C356, C357, C358 have been changed to diode MA165.





[MCPU BOARD (VEP2609A/B/C)]

Ref.No.	Original Part No.	New Part No.	Part Name & Description
C356	ECQV05124JZ	MA165	Capacitor → Diode
C357	ECQV05124JZ	MA165	Capacitor → Diode
C358	ECQV05124JZ	MA165	Capacitor → Diode

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Service Manual

Subject: Change of MCBD circuit

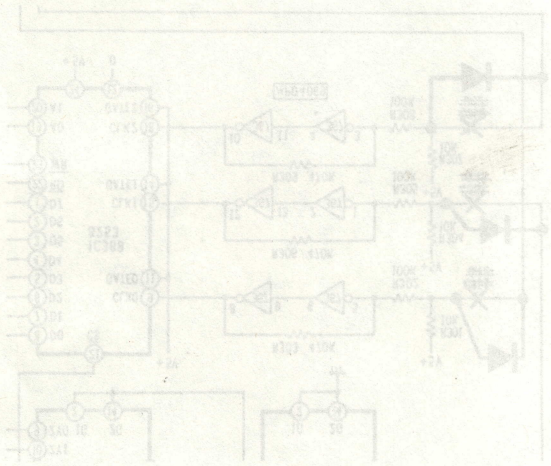
Please use this manual together with the Service Manual for Model No. NV-VA90,NV-VA70,VU-VA70

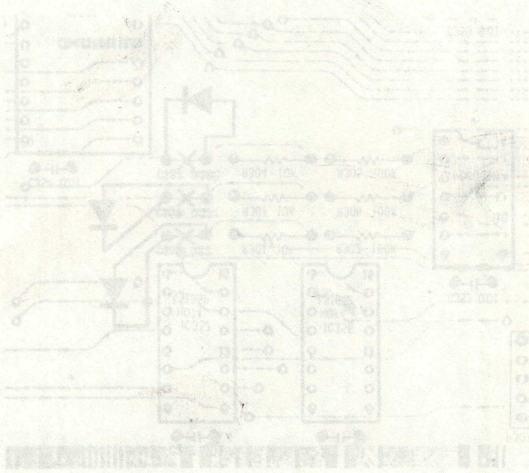
Order No. ARD-7401-3A, ARD-8108-88S, ARD-8009-A0S

To prevent misreading of Control Pulse caused by the noise, capacitor C35A, C35Z,C35S have been changed to diode MA165.

Ref.No.	Original Part No.	New Part No.	Part Name & Description
C35A	ECQV0J153ALZ	MA165	Capacitor → Diode
C35Z	ECQV0J153ALZ	MA165	Capacitor → Diode
C35S	ECQV0J153ALZ	MA165	Capacitor → Diode

[MCBD BOARD (VEP52054A\B\C)]





Effective From: Serial No. Knowing change

Model No. NV-VA90\VA70
VU-VA70

Editing coordinator

Date

Order No. ARD5841S0Y

FILE No. VRD-K1-004

Parts Change Notice

Video Cassette Recorder

EFFECTIVE FROM: Serial No. LIHL00001

AU-700
MODEL: NV-9240/9600

Subject: Change of power source electrolytic capacitor

Please revise the original parts list in the Service Manual to confirm to the change(s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	
(1.) Improve performance 2. Change of material or dimension 3. To meet approved specification 4. Standardization 5. Addition 6. Deletion 7. Correction 8. Other	Since the performance of the former electrolytic capacitor on the power source P.C. board (VEP0171B) is prone to lower due to the ripple current, two capacitors, C-11 and C-2K, have been changed as shown below.

Interchangeability Code		
	Parts → Set Production	
A	Original → Early New → Late	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
(C)	Original → Early New → Late	New parts only may be used in early or late production sets. Stock new parts.
D	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions
C-11	ECET35R472SL	ECESIVV472	(Explosion-proof) Electrolytic capacitor
C-21	ECET50R332SL	ECESIHV332	(Explosion-proof) Electrolytic capacitor

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Parts Change Notice

FILE No. VRD-PN-83-5005

Parts Change Notice

Video Cassette Recorder

EFFECTIVE FROM: Serial No. First Production

Model No.: AU-700
NV-9600/9240

Subject: Correction of Part Number

Please revise the original parts list in the Service Manual to confirm to the change(s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	
1. Improve performance	Part number of IC on the System Control P.C.B. has been corrected as follows.
2. Change of material or dimension	
3. To meet approved specification	
4. Standardization	
5. Addition	
6. Deletion	
(7) Correction	
8. Other	

Interchangeability Code		
Parts	Set Production	
(A) Original → Early, New → Late		Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B Original → Early, New → Late		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
C Original → Early, New → Late		New parts only may be used in early or late production sets. Stock new parts.
D Original → Early, New → Late		Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions
IC 1,2,3 10,14,15	MN1202M	MN1202	IC

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Parts Change Notice

Ref. No.	Original Part No.	New Part No.	Part Name & Description
			IC

Part Number

E Other

D
- New → Date
- Original → Each

Use original parts may be used to early production sets only. New parts may be used in late production sets only. Stock both original and new parts.

C
- New → Date
- Original → Each

Stock new parts.

New parts only may be used to early or late production sets.

B
- New → Date
- Original → Each

Use up stock new parts.
Original parts may be used to early or late production sets. Use original parts when possible.
New parts may be used in early production sets only.

A
- New → Date
- Original → Each

Use original parts until exhausted, then stock new parts.
Original or new parts may be used in early or late production sets.

Date — Use Production

Interchangeability Code

8. Other
7. Correction
6. Deletion
5. Addition
4. Standardization
3. To meet changed specification
2. Change of material, dimension
1. Improve performance

Reason for Change

Please replace the original parts list in the Service Manual to conform to the changes shown below. If new part numbers are shown, be sure to use them when ordering parts.

Subject: Correction of Part Number

Part number of IC on the system control P.C.B. has been corrected, as follows:

EFFECTIVE FROM: Serial No.: First Production

Model No.: VA-V00

VA-S800/S320

VIDEO CASSETTE RECORDER

PART NO. VMD-PN-83-2002

ORDER NO. VRD-8012-467

Service Manual

MODEL AU-A70

Bulletin NO. 02

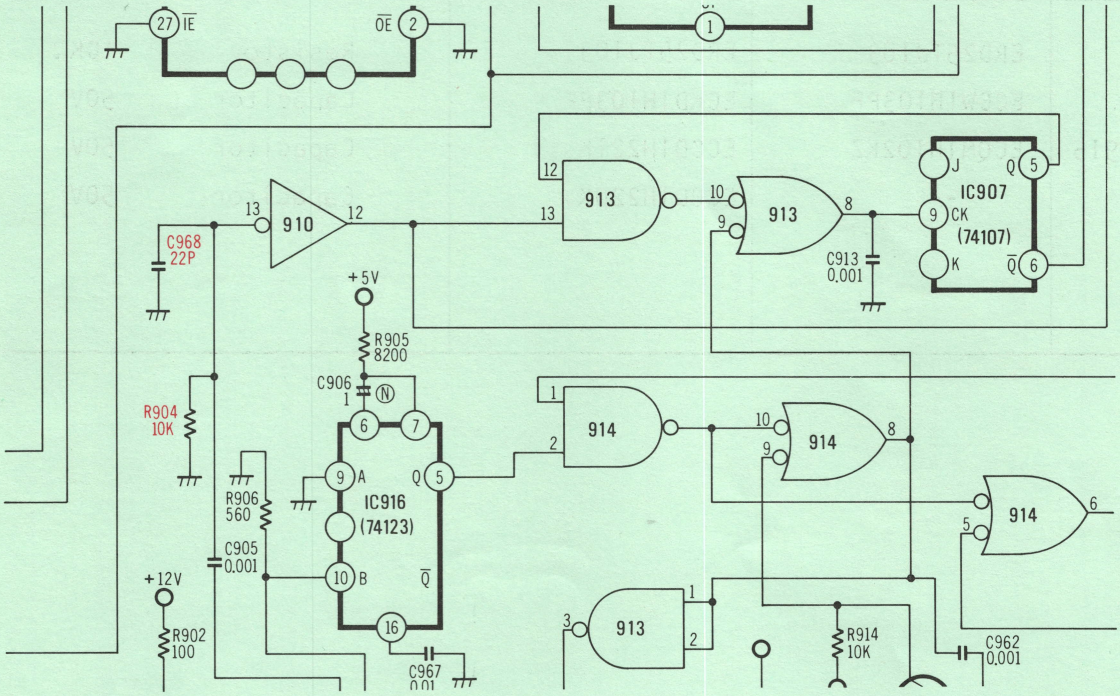
Supplementary

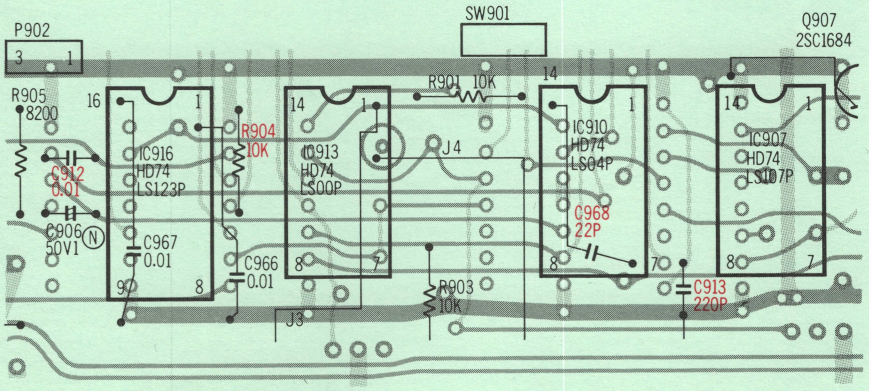
Subject: TIME CODE CIRCUIT IMPROVEMENT

The following circuit has been changed to improve time code generator stability.

Effective form Serial No. USA MODEL A1A0168D1

CANADA MODEL A1A1031D1





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Interchangeability Code		
Parts	Set Production	
A Original → Early New → Late		Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B Original → Early New → Late		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
Ⓒ Original → Early New → Late		New parts only may be used in early or late production sets. Stock new parts.
D Original → Early New → Late		Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions		
R904	ERD25TJ183	ERD25TJ103	Resistor	10KΩ	
C912	ECCW1H103PF	ECKD1H103PF	Capacitor	50V	0.01
C913∿915	ECQM1H102KZ	ECCD1H221K	Capacitor	50V	220P
C968	--	ECCD1H220K	Capacitor	50V	22P

ORDER NO. VRD-S-83-6009

Service Manual

Editing Controller
Model No.: NV-A960/NV-A970
AU-A70

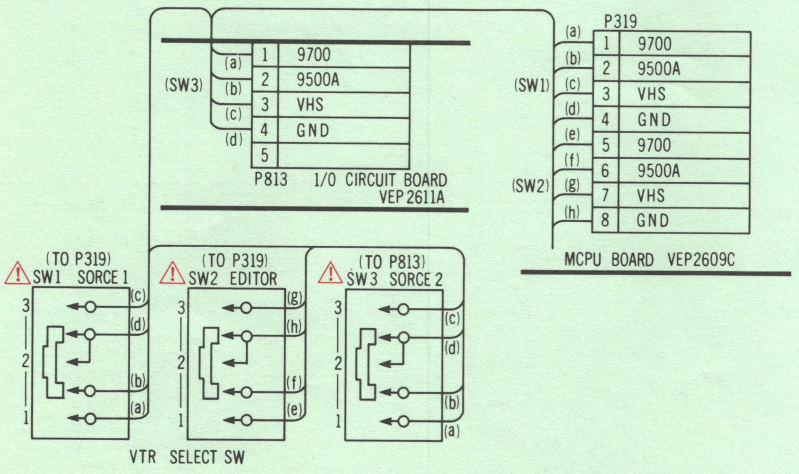
Bulletin No. 02

Supplementary

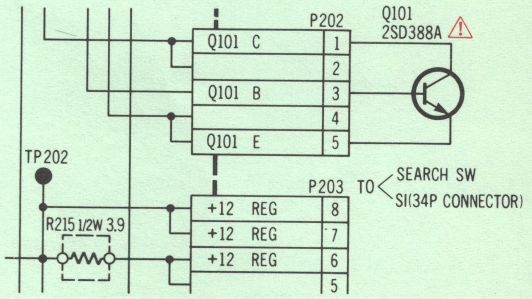
Subject: Important Safety Notice

Following components identified by ⚠ have special characteristics important for safety.
When replacing any of these components, use only the original ones.

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
SW10		ESB70119T	Power Switch	1	(N) ⚠
Q101		2SD388A	Transistor	1	⚠
T101		ETP76HU8A	Power Transistor	1	(N) ⚠
SW1-3		ESD32126	Slide Switch	2	(N) ⚠
P4		VJP40	AC Socket	1	⚠
M101		VRF0007	Fan	1	⚠
SW102		ESE3767	Voltage Selector	1	(N) ⚠



[INTERCONNECTION SCHEMATIC DIAGRAM]



[POWER SUPPLY (2) SCHEMATIC DIAGRAM]

(Please Turn Over)

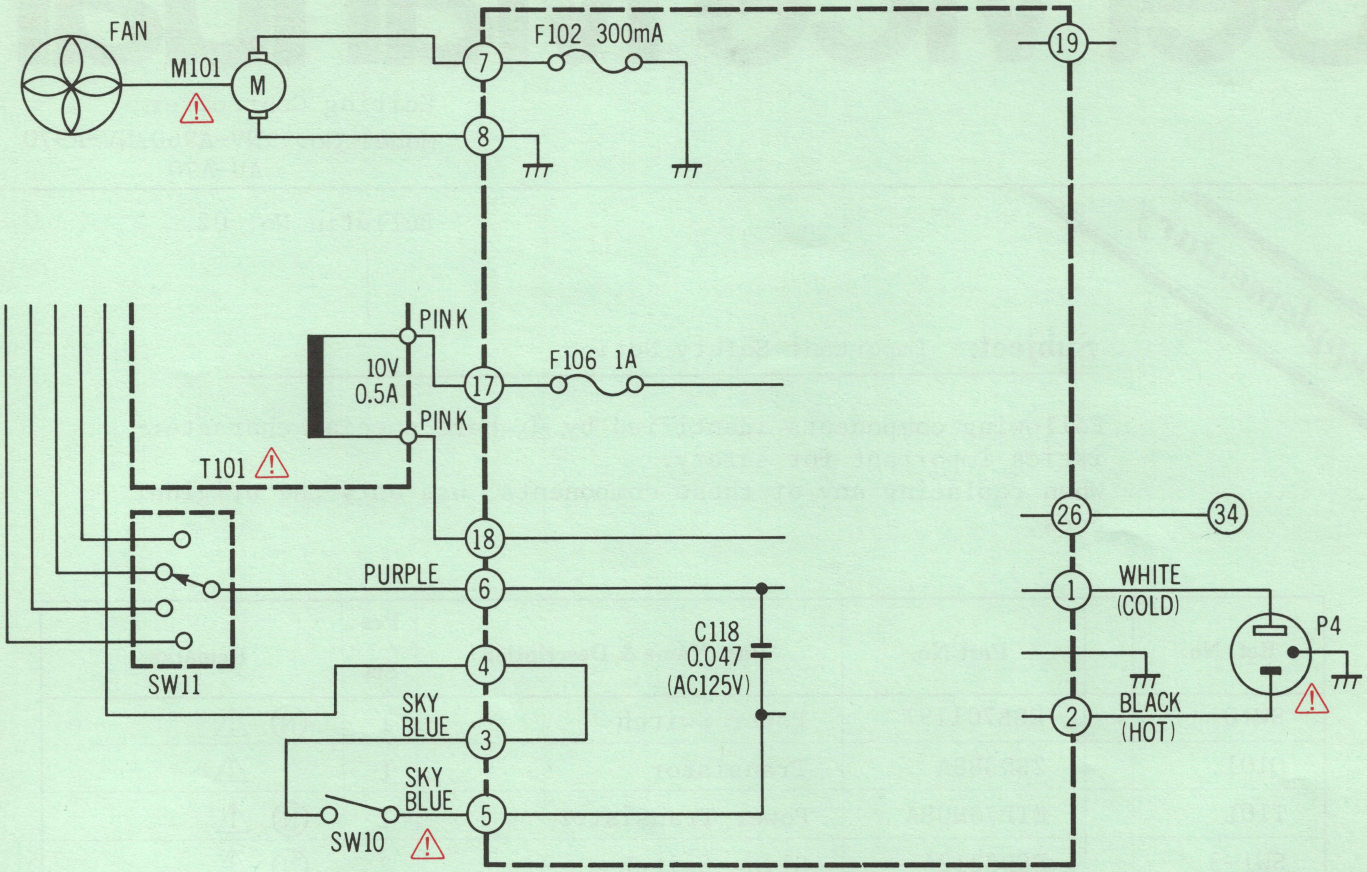
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[POWER SUPPLY (1) SCHEMATIC DIAGRAM]

ORDER NO. VRD-8012-466

Service Manual

MODEL AU-700

Supplementary

Bulletin No. 04

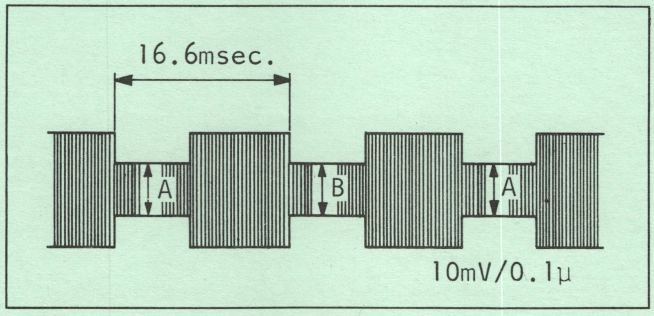
Subject: CHANGE OF ELECTRICAL ADJUSTMENT

File this bulletin with your AU-700 Service Manual

To improve specification of unit, The following electrical adjustment figure has been changed. Therefore, Please correct electrical adjustment figure of item "5-6 Rotary Erase Current Adjustment " on Page 2-56 of Service Manual Vol 2.
Effective from H0HD10001

5-6. Rotary Erase Current Adjustment
Test Point: TP1 TP2 (GND)
Adjustment: R196 R211
Mode: Video Insert

1. Connect the scope to TP1 and TP2 (GND) on the Rotary Erase Current Circuit Board (VEP00537) which is located above the upper cylinder unit
2. Supply a Color Bar signal to the video Input on the rear Panel.
3. Place the unit in the INSERT mode.
4. Adjust R196 and R211 so that the A, B Voltage becomes 180mVp-p.



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Service Manual

MODEL VA-700

Supplement: CHANGE OF ELECTRICAL ADJUSTMENT

FILE No. VRD-K1-105

Parts Change Notice

Video Cassette Recorder
Model AU-700
NV-9240/9600

EFFECTIVE FROM: Serial No. First Production

Subject: Correction of the Drive Gear Base Unit

Please revise the original parts list in the Service Manual to confirm to the change(s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	
1. Improve performance	Parts number of Drive Gear Base Unit for AU-700, NV-9240/9600 has been corrected as follows. (Service Manual Vol. 4 Page 4-16)
2. Change of material or dimension	
3. To meet approved specification	
4. Standardization	
5. Addition	
6. Deletion	
(7) Correction	
8. Other	

Interchangeability Code		
	Parts / Set Production	
A	Original → Early, New → Late	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original → Early, New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
(C)	Original → Early, New → Late	New parts only may be used in early or late production sets. Stock new parts.
D	Original → Early, New → Late	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions
Item NO. 115(3)	VDV0118	VXA1143	Drive Gear Base Unit

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FILE No. VRP-K1-105

Parts Change Notice

Video Cassette Recorder
Model AG-700
NV-9240/9600

EFFECTIVE FROM Serial No. Trial Production

Subject: Correction of the Drive Gear Base Unit

Please revise the original parts list in the Service Manual to confirm to the changes shown below. The new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	
1. Improve performance	
2. Change of material or dimension	
3. Correct approved specification	
4. Standardization	
5. Addition	
6. Deletion	
(7.) Correction	Parts number of Drive Gear Base Unit for AG-700, NV-9240/9600 has been corrected as follows. (Service Manual Vol. 4 Page 4-10)
8. Other	

Interchangeability Code		
Parts	Set Production	
A	Original → Early New → Late	Original or new parts may be used in early or late production sets Use original parts until exhausted, then stock new parts
B	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
(C)	Original → Early New → Late	New parts only may be used in early or late production sets. Stock new parts.
D	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E Other		

Part Number			
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions
Item No. 115(3)	VDV9011B	VXA1143	Drive Gear Base Unit

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FILE No. VRD-KI-006

Parts Change Notice

Video Cassette Recorder

AU-700

MODEL: NV-9240/9600

EFFECTIVE FROM: Serial No. L1HL0001

Subject: Change of part number of MYLAR capacitor

Please revise the original parts list in the Service Manual to confirm to the change(s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	
(1.) Improve performance 2. Change of material or dimension 3. To meet approved specification 4. Standardization 5. Addition 6. Deletion 7. Correction 8. Other	To rationalize productive efficiency. MYLAR capacitors have been changed to smaller parts, and thus, the part numbers have been changed as shown below.

Interchangeability Code		
	Parts / Set Production	
(A)	Original → Early New → Late	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
C	Original → Early New → Late	New parts only may be used in early or late production sets. Stock new parts.
D	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions
	ECQM1H102KW	ECQM1H102KZ	MYLAR capacitor
	ECQM1H222KW	ECQM1H222KZ	MYLAR capacitor

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Parts Change Notice

Subject: Change of part number of: WAVAR capacitor

Please review the original parts list in the Service Manual to confirm to the chassis(es) shown below. If new part numbers are shown, be sure to use them when ordering parts.

EFFECTIVE FROM: Serial No. LJH00001

MODEL: NV-SJ10/SJ00
AU-\00

Video Cassette Recorder

EIFE No. VCD-KI-005

Ref. No.	Original Part No.	New Part No.	Part Name & Description
	ECQMJH105KM	ECQMJH105KZ	WAVAR capacitor
	ECQMJH335KM	ECQMJH335KZ	WAVAR capacitor

Part Number

E Order

D
New → Late
Original → Early
Original parts must be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.

C
New → Late
Original → Early
Stock new parts.
New parts only may be used in early or late production sets.

B
New → Late
Original → Early
Stock new parts.
Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts whenever possible.

A
New → Late
Original → Early
Use original parts until exhausted, then stock new parts.
Original or new parts may be used in early or late production set.

Part — Use Explanation

Interchangeability Code

8. Other
7. Correction
6. Deletion
5. Change of material or dimension
4. Strengthening
3. To meet approved specification
2. Addition
1. Improve performance

Reason for Change

changed as shown below.
parts, and thus, the part numbers have been
capacitors have been changed to simplify
to standardize product efficiency. WAVAR

FILE No. VRD-8010-33P

Parts Change Notice

Video Cassette Recorder

EFFECTIVE FROM: Serial No. F0HD10001 MODEL AU-700

Subject: Correction of Part Number

Please revise the original parts list in the Service Manual to conform to the change(s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	
1. Improve performance 2. Change of material or dimension 3. To meet approved specification 4. Standardization 5. Addition 6. Deletion (7) Correction 8. Other	Please Correct Hour Meter Plate and Screw on Page 4-19 Item 467, and Item 533 of Volume 4.

Interchangeability Code		
	Parts / Set Production	
A	Original → Early New → Late	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
©	Original → Early New → Late	New parts only may be used in early or late production sets. Stock new parts.
D	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E	Other	

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions
467	VMA4528	VMA4250	Hour Meter Plate
533	XYE2+CF10S	XTN2+10S	Screw

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Parts Change Notice

FILE No. VRD-8012-49P

Parts Change Notice

Video Cassette Recorder

EFFECTIVE FROM: Serial No. LOHD10001 MODEL AU-A70

Subject: AU-A70 Parts Change

Please revise the original parts list in the Service Manual to conform to the change(s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	
1. Improve performance	The following Parts have been changed for standardization.
2. Change of material or dimension	
3. To meet approved specification	
(4) Standardization	
5. Addition	
6. Deletion	
7. Correction	
8. Other	

Interchangeability Code		
Parts	Set Production	
A Original → Early, New → Late		Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B Original → Early, New → Late		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
(C) Original → Early, New → Late		New parts only may be used in early or late production sets. Stock new parts.
D Original → Early, New → Late		Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions
6 2 1	VGQ0124 VGN1363 VGN1371	→ VXY0078	Source Panel
3 7	VGN1370 VGQ0130	→ VXY0079	Main Editor Panel
6 4 5	VGQ0124 VGH1368 VGN1369	→ VXY0080	Editor Panel

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Parts Change Notice

Parts Change Notice

Video Cassette Recorder

EFFECTIVE FROM: Serial No. First Lot

MODEL AU-A70

Subject: Correction of Time Code Circuit

Please revise the original parts list in the Service Manual to conform to the change(s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	
1. Improve performance	Please delete R907 resistor on the Time Code Circuit on page 10,11 of Service Manual.
2. Change of material or dimension	
3. To meet approved specification	
4. Standardization	
5. Addition	
(6) Deletion	
7. Correction	
8. Other	

Interchangeability Code		
	Parts — Set Production	
A	Original → Early, New → Late	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original → Early, New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
C	Original → Early, New → Late	New parts only may be used in early or late production sets. Stock new parts.
D	Original → Early, New → Late	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
(E) Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions
R907	ERD25TJ750	--	75Ω Deletion

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Parts Change Notice